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his author's works, but has confined himself in the main to thoughts on moral topics, such as study, society and solitude, friendship, and others of the like nature; and in this we think he has done wisely, for such ethical sayings are the most likely to do good. We cannot say, however, that we find much depth or originality in Thoreau's thinking, and we doubt if he has had much real influence even over his admirers.

—A neat and useful pocket manual for army officers is "Notes on Military Hygiene," by Lieut.-Col. Alfred A. Woodhull, which has recently been published by John Wiley & Sons. The little volume contains what may be called the essence of a series of lectures on military hygiene, delivered by the author at the Infantry and Cavalry School at Fort Leavenworth. Though originally prepared for the convenience of students, the work will no doubt prove acceptable to officers of the line generally. Among the topics discussed are the selection of soldiers, military clothing, food, habitations, camps and marches, sewers and waste, water, and preventable diseases.

—Messrs. Houghton, Mifflin, & Co. have just issued another volume (Vol. 34) of their Modern Classics,—a series which Dr. William T. Harris, United States commissioner of education, has called an "unrivalled list of excellent works." This new volume, entitled "Thackeray's Lighter Hours," contains "Dr. Birch and his Young Friends," "Selections from the Book of Snobs and the Roundabout Papers," and "The Curate's Walk." Modern Classics has a very extensive sale as a school library, for which it is well suited, as it contains many of the best complete stories, essays, sketches, and poems in modern literature, including selections from the celebrated authors of England and America, and translations of masterpieces by continental writers.

—William M. Goldthwaite, New York, has published a "Driving Road Chart of the Country surrounding New York City." This chart covers every place within twenty miles radius of the City

Hall, and in parts extends out to nearly forty. This map will be specially useful to all living in or near the city, or contemplating removing to it.

—Herbert Ward, in the preface to his "Five Years with the Congo Cannibals," tells his story of the rear-guard of the Stanley expedition for the relief of Emin Pacha. The trials of those left behind by Mr. Stanley when he pushed forward, the fate of Major Barttelot and Mr. Jameson, and Mr. Ward's own part in the transactions of that trying period, form an interesting chapter in the history of Mr. Stanley's great enterprise.

—A map of the valley of Virginia, showing the location of all the industrial towns, battle-fields, mountain-passes, and Luray caverns (10 cents), is published by Alex Y. Lee, C.E., Luray, Va.

—Volume II. of the "Bulletin of the Illinois State Laboratory of Natural History, Champaign, Ill., " contains the following articles: "Descriptive Catalogue of the North American Hepaticæ, North of Mexico," by Lucien M. Underwood; "Description of New Illinois Fishes," by S. A. Forbes; "Parasitic Fungi of Illinois," Part I., by T. J. Burrill; "Studies on the Contagious Diseases of Insects," I., by S. A. Forbes; "List of the Described Species of Fresh Water Crustacea from America, North of Mexico," by Lucien M. Underwood; "Parasitic Fungi of Illinois," Part II., by T. J. Burrill and F. S. Earle; "Studies of the Food of Fresh-Water Fishes," by S. A. Forbes; and "On the Food Relations of Fresh-Water Fishes," by S. A. Forbes. Vol. III. of the same publication contains, among others, the following articles: "A Descriptive Catalogue of the Phalangiæ of Illinois," by Clarence M. Weed; "A Partial Bibliography of the Phalangiæ of North America," by Clarence M. Weed; "On an American Earthworm of the Family Phreoryctidæ," by S. A. Forbes; "An American Terrestrial Leech," by S. A. Forbes; "A Preliminary Report on the Animals of the Mississippi Bottoms near Quincy, Ill., in August, 1888," Part I., by H. Garman; and "Notes on Illinois Reptiles and Amphibians,"

Publications received at Editor's Office,
Oct. 20-Nov. 8.

ABBOTT, C. C. Outings at Odd Times. New York, Appleton. 282 p. 16°. \$1.50.

BALL, W. P. Are the Effects of Use and Disuse inherited? (Nature Series.) London and New York, Macmillan. 156 p. 12°. \$1.

BELDING, L. Land Birds of the Pacific District. (Occasional Papers of the California Academy of Sciences, II.) San Francisco, Cal. Acad. Sci. 274 p. 8°. \$2.50.

COPE, R. The Distribution of Wealth; or, The Economic Laws by which Wages and Profits are determined. Philadelphia, Lippincott. 364 p. 8°. \$2.

DURHAM, W. Astronomy. Sun, Moon, Stars, etc. (Science in Plain Language.) Edinburgh, Black. 133 p. 12°. (New York, Macmillan, 50 cents.)

EIGENMANN, C. H. and Rosa S. A Revision of the South American Nematognathæ or Cat-Fishes. (Occasional Papers of the California Academy of Sciences, I.) San Francisco, Cal. Acad. Sci. 508 p. 8°. \$3.

ELDERTON, W. A. Maps and Map Drawing. London and New York, Macmillan. 129 p. 24°. 35 cents.

ELECTRIC Railway Advertiser. Vol. I. No. 2. f. Boston, Mass., G. L. Austin. 44 p. f°. \$1 per year.

GAME Laws, Book of the. Vol I. No. 1. New York, Forest and Stream Publ. Co. 228 p. 8°. 50 cents.

LATIMER, L. H. Incandescent Electric Lighting. A Practical Description of the Edison System. (Van Nostrand's Science Series, No. 57.) New York, Van Nostrand. 140 p. 18°. 50 cents.

LINDSAY, T. B., ed. The Satires of Juvenal. New York, Cincinnati, and Chicago, American Book Co. 226 p. 16°.

MCLENNAN, E. Cosmical Evolution: A New Theory of the Mechanism of Nature. Chicago, Donohue, Henneberry, & Co. 399 p. 12°.

MUSICK, T. H. The Genesis of Nature considered in the Light of Mr. Spencer's Philosophy, as based upon the Persistence of Energy. New York, J. B. Alden. 377 p. 12°.

ROSA, D. Le Noy Latin International Scientific Lingua Super Natural Bases. (Bollettino dei Musei di Zoologia ed Anatomia comparata della R. Università di Torino, vol. v. No. 89.) Torino, Libreria Carlo Clausen. 10 p. 8°.

SHEPHERD, H. A. The Antiquities of the State of Ohio. Cincinnati, Robert Clarke & Co. 189 p. 4°. \$2.

SHUFELDT, R. W. The Mycology of the Raven (Corvus corax sinuatus). London and New York, Macmillan. 343 p. 8°. \$4.

TEACHERS' Manual. Public Schools of the District of Columbia. Washington, Linotype Print. 84 p. 8°.

THOREAU's Thoughts: Selections from the Writings of Henry David Thoreau. Ed. by H. G. O. Blake. Boston and New York, Houghton, Mifflin, & Co. 153 p. 16°. \$1.

TUCKERMAN, A. Index to the Literature of Thermodynamics. Washington, Smithsonian Inst. 239 p. 8°.

VELSCHOW, F. A. The Natural Law of Relation between Rainfall and Vegetable Life, and its Application to Australia. London, Edward Stanford. 40 p. 8°. 25 cents.

WALLACE, W. Life of Arthur Schopenhauer. London, Walter Scott; New York, A. Lovell & Co. 217 p. 12°. 40 cents.

WOODHULL, A. A. Notes on Military Hygiene, for Officers of the Line: A Syllabus of Lectures at the U. S. Infantry and Cavalry School. New York, Wiley. 150 p. 16°.

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including Several Species not before recorded from the Northern States," by H. Garman.

—The annual of the Office of Naval Intelligence (United States Navy Department), bearing date of June, 1890, has just appeared. It is No. IX. of the General Information Series, and is intended to bring to the attention of naval officers and others interested in naval matters the year's progress in naval development abroad, and to preserve a record of it in permanent form for reference. The volume exhibits the progress of foreign nations rather than that of our own; and the information conveyed in the "Notes," which occupy the most prominent place in the volume, is compiled from professional papers and journals, almost all of it having already appeared in print. Among the contents are notes on ships and torpedo-boats and on machinery, ordnance, and armor; on the application of electricity in the navy; and on the naval manœuvres of 1889. There are also papers on "The Ministries of Marine and Personnel of Several European Navies," "Administration of the Merchant Marine in Foreign Countries," "The Development of Rapid-Fire Guns for Naval Use," "The Year's Development of Home Resources for the Production of War Material," "Liquid Fuel for Torpedo-Boats," "The Manœuvring Distances of Steamers," and "Automobile Torpedoes." Twelve plates add to the value of the work.

—*The Popular Science Monthly* will make a new departure in 1891 by publishing a series of comprehensive and fully illustrated articles on "The Development of American Industries since Columbus," in which the progress of iron and steel making, of the cotton manufacture, and of the woollen, glass, leather, and other leading industries, will be described by writers of long practical

acquaintance with their respective subjects. It has been announced that one of the features of the coming world's fair is to be a comparison of the great manufactures of to-day with the condition of the same industries at the discovery of America, and it is the design of these papers to describe the successive steps by which the distance between those two stages has been passed over. The series begins in the issue for December, 1890 (the second number of Volume XXXVIII.), with an account of the first steps in iron-making in the Colonies, written by Mr. W. F. Durfee of Pennsylvania. The full prospectus of the *Monthly* for the coming year will be printed in the same number. Hon. David A. Wells will also begin during the coming year a series of papers on "The Principles of Taxation;" Dr. Andrew D. White's "New Chapters in the Warfare of Science" will be continued; and other articles bearing upon the advances of science, and upon questions of the day, are promised. What shall we do with the "Dago"?—a puzzling question that seems likely to take rank with the Chinese problem—will be discussed by Mr. Appleton Morgan in the December number. Among the greatest achievements of science are the discoveries that sound, heat, and light are vibratory movements, each in its proper medium. The nature of electricity, however, has long remained unknown; but at last Dr. Henri Hertz of Heidelberg has reached a result that has been widely accepted by the most eminent physicists. A translation of his own account of his discoveries, under the title "The Identity of Light and Electricity," will be printed in the same number. The bore of the Amazon will also be described by Mr. John C. Branner, State geologist of Arkansas. The "bore," which is one of the most impressive phenomena of nature, occurs only in narrow estuaries where high tides prevail.

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CALENDAR OF SOCIETIES.

Anthropological Society, Washington.

Nov. 4.—J. W. Powell, Transformation; W. J. Hoffman, Menomini Shamanism.

Philosophical Society, Washington.

Nov. 8.—J. Elfreth Watkins, The Beginnings of Engineering; J. Howard Gore, The Decimal System of the Seventeenth Century.

Academy of Science and Art, Pittsburgh, Penn.

Nov. 7.—Gustave Guttenberg, Some Thoughts suggested by a Visit to the Allegheny Conservatory (illustrated by lantern slides).

Appalachian Mountain Club, Boston.

Nov. 12.—William H. Niles, Influence of Mountains upon Human Life.

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